

US005232444A

United States Patent [19]

[76] Inventors: Hansjörg Just, Kreuzkopfsteige 11;

[54] DILATATION CATHETER

Just et al.

[11] Patent Number:

5;232,444

[45] Date of Patent:

Aug. 3, 1993

FOREIGN PATENT DOCUMENTS

2311807 9/1973 Fed. Rep. of Germany . 3235974 6/1983 Fed. Rep. of Germany . 3516830 11/1986 Fed. Rep. of Germany .

Primary Examiner—John D. Yasko Attorney, Agent, or Firm—Peter K. Kontler

57] ABSTRACT

A catheter for dispensing medication into a body passage or cavity has a hollow shaft and an elongated, inflatable and deflatable member at one end of the shaft. The shaft functions to permit inflation and deflation of the elongated member. The elongated member, which serves as a carrier for the medication, has an intermediate portion centrally located between the ends of the elongated member and a lateral portion on either side of the intermediate portion. Each of the lateral portions extends from the intermediate portion to a respective end of the elongated member. The intermediate portion is perforate to permit the medication to be forced out of the elongated member and into a body passage or cavity when the elongated member is subjected to pressure during inflation. The lateral portions are imperforate so that they can serve as seals upon coming into contact with body tissue as the elongated member is inflated.

33 Claims, 4 Drawing Sheets

Ulrich Solzbach, Spechtweg 15, both of D-7800 Freiburg, Fed. Rep. of Germany		
[21]	Appl. No.:	635,625
[22]	PCT Filed:	Jun. 21, 1989
[86]	PCT No.:	PCT/DE89/00408
	§ 371 Date:	Feb. 25, 1991
	§ 102(e) Date:	Feb. 25, 1991
[87]	PCT Pub. No.:	WO89/12478
	PCT Pub. Date:	Dec. 28, 1989
[30]	Foreign App	lication Priority Data
Jun. 25, 1988 [DE] Fed. Rep. of Germany 3821544		
[52]	U.S. Cl	
[56]	References Cited	
U.S. PATENT DOCUMENTS		

3,981,299 9/1976 Murray 604/96 X

4,417,576 11/1983 Baron 604/96 X

